

SAFETY DATA SHEET

(S.D.S.)

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1. Identification

Product identifier used on the label

Product Name: Epoxy Bond Cartridge 300 ML X 150 ML Part B
Product Code: C343

Recommended use of the chemical and restriction on use

Recommended use*: for industrial and professional users

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Supplier:
General Products & Supply Inc.
101 Technology Lane
Export, PA 15632
Telephone: 800-548-2080

Emergency telephone number

800-255-3924

Other means of identification

Chemical family: No data available.

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

Classification of the product

| | | |
|-------------------|------------------|--|
| Acute Tox. | 4 (oral) | Acute toxicity |
| Acute Tox. | 4 (dermal) | Acute toxicity |
| Skin Corr./Irrit. | 1B | Skin corrosion/irritation |
| Eye Dam./Irrit. | 1 | Serious eye damage/eye irritation |
| Skin Sens. | 1B | Skin sensitization |
| Repr. | 2 (fertility) | Reproductive toxicity |
| Repr. | 2 (unborn child) | Reproductive toxicity |
| STOT RE | 2 | Specific target organ toxicity — repeated exposure |

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| | | |
|-----------------|-------------------|--|
| STOT RE | 1 (by inhalation) | Specific target organ toxicity — repeated exposure |
| Aquatic Acute | 1 | Hazardous to the aquatic environment - acute |
| Aquatic Chronic | 1 | Hazardous to the aquatic environment - chronic |

Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

| | |
|------|---|
| H312 | Harmful in contact with skin. |
| H302 | Harmful if swallowed. |
| H317 | May cause an allergic skin reaction. |
| H372 | Causes damage to organs (Lung) through prolonged or repeated exposure (inhalation). |
| H373 | May cause damage to organs (Kidney) through prolonged or repeated exposure. |
| H361 | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H314 | Causes severe skin burns and eye damage. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary Statements (Prevention):

| | |
|------|--|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P273 | Avoid release to the environment. |
| P260 | Do not breathe dust/gas/mist/vapours. |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P270 | Do not eat, drink or smoke when using this product. |
| P264 | Wash with plenty of water and soap thoroughly after handling. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |

Precautionary Statements (Response):

| | |
|--------------------|--|
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P301 + P330 + P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |
| P301 + P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P361 + P364 | Take off immediately all contaminated clothing and wash it before reuse. |
| P330 | Rinse mouth. |
| P391 | Collect spillage. |

Precautionary Statements (Storage):

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P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

| <u>CAS Number</u> | <u>Weight %</u> | <u>Chemical name</u> |
|-------------------|-------------------|----------------------------|
| 140-31-8 | >= 10.0 - < 50.0% | 2-piperazin-1-ylethylamine |
| 84852-15-3 | >= 10.0 - < 50.0% | Phenol, 4-nonyl-, branched |
| 14808-60-7 | >= 1.0 - < 20.0% | crystalline silica |
| 107-21-1 | >= 3.0 - < 5.0% | ethylene glycol |

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:

No applicable information available.

If on skin:

Wash thoroughly with soap and water. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Hazards: No applicable information available.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
carbon dioxide, dry powder, foam, water spray

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Advice for fire-fighters

Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

Further information:

Keep containers cool by spraying with water if exposed to fire.

5. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations.
For large amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations.

6. Handling and Storage

Precautions for safe handling

Avoid contact with the skin, eyes and clothing.

Protection against fire and explosion:

Keep away from sources of ignition - No smoking. The relevant fire protection measures should be noted.

Conditions for safe storage, including any incompatibilities

No applicable information available.

Further information on storage conditions: Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight. Store protected against freezing.

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7. Exposure Controls/Personal Protection

Advice on system design:

No applicable information available.

Personal protective equipment**Respiratory protection:**

Wear a NIOSH approved (or equivalent) particulate respirator if ventilation is inadequate to control dust.

Hand protection:

Chemical resistant protective gloves, Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. No special measures necessary if stored and handled correctly. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

8. Physical and Chemical Properties

| | |
|---|---|
| Form: | paste |
| Odour: | amine-like |
| Odour threshold: | No applicable information available. |
| Colour: | black |
| pH value: | not determined |
| Melting point: | No applicable information available. |
| Boiling point: | No applicable information available. |
| Sublimation point: | No applicable information available. |
| Flash point: | > 200 °F |
| Flammability: | No applicable information available. |
| Lower explosion limit: | No applicable information available. |
| Upper explosion limit: | No applicable information available. |
| Autoignition: | No data available. |
| Vapour pressure: | No applicable information available. |
| Density: | 1.4 g/cm ³ (20 °C) |
| Relative density: | No applicable information available. |
| Vapour density: | Heavier than air. |
| Partitioning coefficient n-octanol/water (log Pow): | No applicable information available. |
| Thermal decomposition: | No decomposition if stored and handled as prescribed/indicated. |
| Viscosity, dynamic: | No applicable information available. |
| Viscosity, kinematic: | No applicable information available. |

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| | |
|----------------------------|--------------------------------------|
| Solubility (quantitative): | No applicable information available. |
| Solubility (qualitative): | No applicable information available. |
| Evaporation rate: | No applicable information available. |

9. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

No data available.

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: carbon oxides, nitrogen oxides

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

10. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after short-term skin contact. Of moderate toxicity after single ingestion.

Oral

Type of value: ATE

Value: 1,704.6 mg/kg

Inhalation

Type of value: ATE

Value: > 20.0000 mg/l

Determined for vapor

Type of value: ATE

Value: > 5.0000 mg/l

Determined for mist

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Dermal

Type of value: ATE

Value: 1,517.8 mg/kg

Assessment other acute effects

No applicable information available.

Irritation / corrosion

Assessment of irritating effects: Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated exposure may affect certain organs. Repeated exposure to small quantities may affect certain organs.

Carcinogenicity

Information on: crystalline silica

Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. In long-term animal studies in which the substance was given by inhalation in high doses, a carcinogenic effect was observed. The substance and its compounds in the form of respirable dusts/aerosols classified by the German MAK commission as a category 1 carcinogen (substances that cause cancer to humans). A carcinogenic effect cannot safely be ruled out. The inhalation uptake of the alveolar fraction of the fine dust may cause damage to the lungs. The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen.

NTP listed carcinogen

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies suggest a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Information on: ethylene glycol

Assessment of teratogenicity: In animal studies the substance caused malformations when given at high doses.

However, the relevance of this result for humans is unclear.

Other Information

The product has not been tested. The statement has been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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11. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic (acute effect) to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

12. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.

13. Transport Information

Land transport

USDOT

| | |
|-----------------------|--|
| Hazard class: | 8 |
| Packing group: | III |
| ID number: | UN 1759 |
| Hazard label: | 8, EHSM |
| Proper shipping name: | CORROSIVE SOLID, N.O.S. (contains NONYLPHENOL, 2-PIPERAZIN-1-YLETHYLAMINE) |

Sea transport

IMDG

| | |
|-----------------------|--|
| Hazard class: | 8 |
| Packing group: | III |
| ID number: | UN 1759 |
| Hazard label: | 8, EHSM |
| Marine pollutant: | YES |
| Proper shipping name: | CORROSIVE SOLID, N.O.S. (contains NONYLPHENOL, 2-PIPERAZIN-1-YLETHYLAMINE) |

Air transport

IATA/ICAO

| | |
|-----------------------|--|
| Hazard class: | 8 |
| Packing group: | III |
| ID number: | UN 1759 |
| Hazard label: | 8 |
| Proper shipping name: | CORROSIVE SOLID, N.O.S. (contains NONYLPHENOL, 2-PIPERAZIN-1-YLETHYLAMINE) |

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14. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

TSCA § 5 proposed Significant New Use Restriction (SNUR)
79 FR 59186

EPCRA 311/312 (Hazard categories): Acute; Chronic

EPCRA 313:

| <u>CAS Number</u> | <u>Chemical name</u> |
|-------------------|----------------------|
| 107-21-1 | ethylene glycol |

| <u>CERCLA RQ</u> | <u>CAS Number</u> | <u>Chemical name</u> |
|------------------|-------------------|----------------------|
| 5000 LBS | 107-21-1 | ethylene glycol |

State regulations

| <u>State</u> | <u>RTK</u> | <u>CAS Number</u> | <u>Chemical name</u> |
|--------------|------------|-------------------|----------------------------|
| PA | | 14808-60-7 | crystalline silica |
| | | 107-21-1 | ethylene glycol |
| | | 140-31-8 | 2-piperazin-1-ylethylamine |
| | | 84852-15-3 | Phenol, 4-nonyl-, branched |
| MA | | 14808-60-7 | crystalline silica |
| | | 107-21-1 | ethylene glycol |
| | | 140-31-8 | 2-piperazin-1-ylethylamine |
| | | 84852-15-3 | Phenol, 4-nonyl-, branched |
| NJ | | 107-21-1 | ethylene glycol |
| | | 140-31-8 | 2-piperazin-1-ylethylamine |
| | | 14808-60-7 | crystalline silica |
| | | | |

CA Prop. 65:

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

NFPA Hazard codes:

Health : 3 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 3 Flammability: 1 Physical hazard: 0

15. Other Information

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in

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a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

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